

AMENDMENT TO THE CLAIMS

1.(Currently Amended) In an amplification apparatus having a distortion detection loop that detects distortion components contained in an amplified signal to be amplified that is amplified by an amplifier, and a distortion removal loop that removes distortion components from the amplified signal, using the distortion components detected by the distortion detection loop, combines a reference signal with the signal to be amplified, and performs control relating to distortion compensation, using said reference signal,

an amplification apparatus ~~characterized in that~~ wherein the signal to be amplified is detected and output of said reference signal is controlled in accordance with a state of the detected signal to be amplified.

2.(Currently Amended) In an amplification apparatus having a distortion detection loop that detects distortion components contained in an amplified signal to be amplified that is amplified by an amplifier, and a distortion removal loop that removes distortion components from the amplified signal, using the distortion components detected by the distortion detection loop, combines a reference signal with the signal to be amplified, and performs control relating to distortion compensation, using said reference signal,

~~an wherein the amplification apparatus characterized by comprising~~
comprises amplification signal detection means that detects said signal to be amplified, and

reference signal control means that, when the amplification signal detection means detects that there is no input of a signal to be amplified, performs control to effect non-output of the reference signal.

3.(Currently Amended) In an amplification apparatus having a distortion detection loop that detects distortion components contained in an amplified signal to be amplified that is

amplified by an amplifier, and a distortion removal loop that removes distortion components from the amplified signal, using the distortion components detected by the distortion detection loop, combines a reference signal with the signal to be amplified, and performs control relating to distortion compensation, using said reference signal,

an amplification apparatus in which a burst signal is input as the signal to be amplified,

~~characterized by~~ wherein the amplification apparatus comprises ~~comprising~~ an amplification signal level detection means that detects the level of the signal to be amplified, and

reference signal control means that in response to the level detected by the amplification signal level detection means, performs control to effect non-combination of the reference signal with the signal to be amplified.

4.(Currently Amended) In an amplification apparatus having a distortion detection loop that detects distortion components contained in an amplified signal to be amplified that is amplified by an amplifier, and a distortion removal loop that removes distortion components from the amplified signal, using the distortion components detected by the distortion detection loop, combines a reference signal with the signal to be amplified, and performs control relating to distortion compensation, using said reference signal,

an amplification apparatus in which a burst signal is input as the signal to be amplified,

~~characterized by~~ wherein the amplification apparatus comprises ~~comprising~~ an amplification signal level detection means that detects the level of the signal to be amplified, and

reference signal control means that performs control to effect non-output of the reference signal when the level detected by the amplification signal level detection means is less than a prescribed threshold value or is equal to or less than a prescribed threshold value.

5.(Currently Amended) An amplification apparatus according to claim 1, ~~any of claims 1 to 4~~,

having a reference signal generation circuit means that has a reference signal generation function and a switch that stops output of said reference signal,

~~characterized in that~~ wherein means that performs control of the reference signal puts reference signal output into a stop state by switching the switch of the reference signal generation means into an Off state.

6.(New) An amplification apparatus according to claim 2,

having a reference signal generation circuit means that has a reference signal generation function and a switch that stops output of said reference signal,

wherein means that performs control of the reference signal puts reference signal output into a stop state by switching the switch of the reference signal generation means into an Off state.

7.(New) An amplification apparatus according to claim 3,

having a reference signal generation circuit means that has a reference signal generation function and a switch that stops output of said reference signal,

wherein means that performs control of the reference signal puts reference signal output into a stop state by switching the switch of the reference signal generation means into an Off state.

8.(New) An amplification apparatus according to claim 4,

having a reference signal generation circuit means that has a reference signal generation function and a switch that stops output of said reference signal,

wherein means that performs control of the reference signal puts reference signal output into a stop state by switching the switch of the reference signal generation means into an Off state.